Welcome

RTB Seed System Toolbox Course
26, 28, 29 July 2021

Graham Thiele
Welcome to our webinar!
Roots, tubers and bananas program

Working globally to harness untapped potential of RTB crops to improve:

Food security, nutrition, income, climate change resilience and gender equity of smallholders.
Why Roots, Tubers & Bananas?

- Genetic complexity (> grains)
- Vegetative propagation, similar seed systems
- Perishability, bulkiness and post harvest/value chain options
Immensely proud of toolbox!

RTB golden eggs: contribution to One CGIAR

Immensely proud of toolbox!

https://tools4seedsystems.org/
Seed system toolbox golden eggs page on RTB's website

https://www.rtb.cgiar.org/seed-system-toolbox/

**Seed system toolbox**

**Toolbox for Seed Systems of Roots, Tubers and Bananas**

**Purpose**
Understand existing seed systems of root crops (e.g. potatoes, sweet potatoes, cassava, yams, bananas, etc.) and assess and support the design of seed system interventions to improve their effectiveness.

**Expected impact**
Root, tuber and banana seed systems tend to be overly repressed and seed interventions to improve them have had limited success. This is a critical intervention for the farmers to access quality planting material of more nutritious, productive varieties, with the quantities that consumers demand, and adaptive climate scenarios. Better understanding of seed systems will improve the impact of the large investments made in crop breeding and disease management with better quality seed, benefiting hundreds of millions of farmers and billions of consumers who depend on these crops.

**Description of the toolbox**
The toolbox brings together proven strategies and tools that work to successfully diagnose, plan and develop new vegetable seed systems. It includes 10 topics: (1) multi-stakeholder framework, (2) ex situ germplasm management, (3) seed value chain, (4) improved seed health approaches and methods, (5) seed testing, (6) ex situ maintenance success studies, (7) nurseries method, (8) seed multiplication, (9) seed production and (10) seed legislation framework and (11) climate change adaptation. The toolbox is a rich source of information and can be used by the farmers, researchers and policy makers to develop seed systems in other crops.

Examples of use
The toolbox has been used to improve seed systems in Asia, and in South America and has been used to improve seed systems in other regions of Asia to improve farmer livelihoods and food security. The toolbox is a rich source of information and can be used by the farmers, researchers and policy makers to develop seed systems in other crops.

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**Logos of Centers and partners**

**References**

For more information on seed systems, please visit the Seed Systems Toolbox website at https://www.rtb.cgiar.org/seed-system-toolbox.
Partnerships and Capacity Building
Moving from research outcomes to development outcomes

• Capacity strengthening for partners using the toolbox to understand and improve seed systems

• Collaborating with other seed system networks, e.g., ISSDAfrica.org, SeedSystem.org

• Partners collaborating to add new tools to the toolbox

Photo credit: K. Ogero.

https://contextnet.com/
Thank you